

Webwork – to modify the wording of a problem

Go to the Hmwk sets editor page

webwork / ece305_s17_white / instructor tools / Hmwk Sets Editor

Hmwk Sets Editor

Please select action to be performed.

Show/Hide Site Description

Select an action to perform:

Filter Sort Edit Publish Import Export Score Create Delete

Show which sets?:

Match on what? (separate multiple IDs with commas)*:

Take Action!

Showing 22 out of 22 sets.

Set List						
<input type="checkbox"/>	Edit Set Data	Edit Problems	Edit Assigned Users	Visible	Open Date	Due Date
<input type="checkbox"/>	MAAtutorial	17	2/49	Yes	01/10/1997 at 06:00am	01/01/2005 at 02:00am
<input type="checkbox"/>	Demo	8	2/49	Yes	01/10/1998 at 06:00am	01/01/2006 at 02:00am
<input type="checkbox"/>	Orientation	15	2/49	Yes	06/26/2004 at 11:30am	09/30/2015 at 12:20pm
<input type="checkbox"/>	ECE305 HW3 Sum16	3	2/49	Yes	07/11/2016 at 11:59pm	07/18/2016 at 11:59pm
<input type="checkbox"/>	ECE305 HW1 White	10	4/49	Yes	07/11/2016 at 11:59pm	07/18/2016 at 11:59pm
<input type="checkbox"/>	ECE305 HW 01 S17	10	28/49	Yes	07/11/2016 at 11:59pm	07/18/2016 at 11:59pm

Click on the number in the Edit problems column for the problem set you want

<input type="checkbox"/>	ECE305 HW2 White	6	14/49	Yes	07/11/2016 at 11:59pm
<input type="checkbox"/>	ECE305 HW3 White	5	9/49	Yes	07/11/2016 at 11:59pm
<input type="checkbox"/>	ECE305 HW4 White	6	4/49	Yes	07/11/2016 at 11:59pm
<input type="checkbox"/>	ECE305 HW8 Fall16	3	2/49	Yes	11/18/2016 at 11:59pm
<input type="checkbox"/>	ECE305 HW5 White	4	5/49	Yes	12/26/2016 at 11:59pm
<input type="checkbox"/>	ECE305 HW6 White	6	44/49	Yes	03/23/2017 at 11:59pm
<input type="checkbox"/>	ECE305 HW7 White	7	28/49	Yes	12/09/2016 at 11:59pm

Please select action to be performed.

This brings up the Set Detail page for the problem set of interest

- MAIN MENU
- Courses
 - Homework Sets
 - ECE305 HW6 White
 - User Settings
 - Grades
 - Instructor Tools
 - Classlist Editor
 - Hmwk Sets Editor
 - ECE305 HW6 White
 - Library Browser
 - Statistics
 - ECE305 HW6 White
 - Student Progress
 - ECE305 HW6 White
 - Scoring Tools
 - Email
 - File Manager
 - Course Configuration
 - Help
 - Report bugs

webwork / ece305_s17_white / instructor tools / hmwk sets editor / Set Detail 2 for set ECE305_HW6_White

Set Detail 2 for set ECE305_HW6_White

This set ECE305_HW6_White is assigned to 44 students out of 49. [Edit individual versions of set ECE305_HW6_White.](#)

Any changes made below will be reflected in the set for ALL students.

[Save Changes](#) [Reset Form](#)

General Information	
Opens	03/23/2017 at 11:59pm
Answers Due	04/13/2017 at 11:59pm
Answers Available	04/13/2017 at 11:59pm
Viable to Students	Yes <input type="checkbox"/>
Hide Hints from Students	No <input type="checkbox"/>
Assignment type	homework <input type="text"/>

Set Description

Headers	Data
Set Header	defaultHeader <input type="text"/> Use Default Header File <input type="button" value="v"/>
Hardcopy Header	defaultHeader <input type="text"/> Use Default Header File <input type="button" value="v"/>

Problems

[Renumber Problems](#) [Render All](#) [Hide All](#) Display Mode:

	Weight	<input type="text" value="17"/>	Source File	<input type="text" value="local/ECE305_HW6_White/ECE305_HW6_F01_White.pg"/>
<input type="checkbox"/>	Delete it?	Max attempts	<input type="text" value="18"/>	
<input type="checkbox"/>	Mark Correct?			

I usually click the “render all” button so I can see all the problems, but if you know which problem you want to edit and don’t need a reminder of what it looks like, you can click on the edit button (pencil) and go directly to the editor. The next screenshot shows the rendered page.

Calculate the quantities of all power terms in the diagram.

$P_{IN} =$ *W* [help \(numbers\)](#)
 $P_{Cu} =$ *W* [help \(numbers\)](#)
 $P_E =$ *W* [help \(numbers\)](#)
 $P_{Core} =$ *W* [help \(numbers\)](#)
 $P_M =$ *W* [help \(numbers\)](#)
 $P_{FWI} =$ *W* [help \(numbers\)](#)
 $P_{OUT} =$ *W* [help \(numbers\)](#)

[Solution:](#)

6 ↓

Delete it?
 Mark Correct?

Weight

Max attempts

Source File

(17 points) [local/ECE305_HW6_White/ECE305_HW6_P06_White.pg](#)

A single turn loop of wire is linked to a magnetic flux of $0.7 \text{ Wb/m}^2 [T]$. If the flux decays linearly to zero in 0.4 ms determine the average EMF induced in the loop is

V. [help \(numbers\)](#)

[Solution:](#)

- Automatically render problems on page load
- Force problems to be numbered consecutively from one
- Add blank problem template(s) to end of homework set

(Any unsaved changes will be lost.)

In this case, we want to insert the words "with a density of" after the word "flux". We can see the surrounding text and where it fits.

Now click on the edit button

This brings up the editor page for the problem of interest.

- MAIN MENU
- Courses
 - Homework Sets
 - ECE305 HW6 White
 - Problem 6
 - User Settings
 - Grades
 - Instructor Tools
 - Classlist Editor
 - Hmwk Sets Editor
 - ECE305 HW6 White
 - 6
 - --6
 - Library Browser
 - Statistics
 - ECE305 HW6 White
 - Student Progress
 - ECE305 HW6 White
 - Scoring Tools
 - Email
 - File Manager
 - Course Configuration
 - Help
 - Report bugs

Problem 6

Editing set *ECE305_HW6_White/problem 6* in file '[TMPL]/local/ECE305_HW6_White/ECE305_HW6_P06_White.pg'

- Problem Techniques
- Math Objects
- POD
- PGLab
- PGML
- Author Info
- report bugs in this problem

```
# DESCRIPTION
# Problem from 'ECE305 Principles of Electromechanical Energy Conversion,
NCSU', Joel Trussell, 3rd ed.
# WeBWorK problem written by Joel Trussell, <hjt@ncsu.edu>
# ENDDescription

## DBsubject(Principles of Electromechanical Energy Conversion)
## DBchapter(Electromechanical Conversion)
## DBsection(NA)
## Institution(North Carolina State University)
## Author(H. J. Trussell)
## TitleText1('ECE305 Principles of Electromechanical Energy Conversion,
NCSU')
## AuthorText1('Leonard White')
## EditionText1('FALL 2016')
## Problem1('HW6.P6')
## Resources('ECE305_HW6_6_White_P1.png')

DOCUMENT();

loadMacros("PG.pl",
```

- View
- Update
- NewVersion
- Append

Using what seed?:

Using what display mode?:

Scroll down to the text block- that begins with the command “Begin Text” Insert the text at the appropriate place

Click “Update”

Click “Take Action”

- Homework Sets
 - ECE305 HW6 White
 - ■ Problem 6
- User Settings
- Grades
- Instructor Tools
 - Classlist Editor
 - Hmwk Sets Editor
 - ■ ECE305 HW6 White
 - ■ 6
 - --6
 - Library Browser
 - Statistics
 - ECE305 HW6 White
 - Student Progress
 - ECE305 HW6 White
 - Scoring Tools
 - Email
 - File Manager
 - Course Configuration
 - Help
- Report bugs

Problem 6

Editing set *ECE305_HW6_White/problem 6* in file '[TMPL]/local/ECE305_HW6_White/ECE305_HW6_P06_White.pg'

- Problem Techniques
- Math Objects
- POD
- PLab
- PGML
- Author Info
- report bugs in this problem

```
#initialize element values, to be changed for each question
$B=random(0.5,1.5,0.1);
$Ts=random(0.1,0.5,0.1);

#calculation
$ans=Real(0);

Context()->texStrings;
BEGIN_TEXT

A single turn loop of wire is linked to a magnetic flux of  $\sqrt{\$B \text{ Wb/m}^2 [T]}$ . If the flux decays linearly to zero in  $\sqrt{\$Ts \text{ ms}}$  determine the average EMF induced in the loop is  $\sqrt{\text{ans\_rule}(10)}$  V.  $\sqrt{\text{AnswerFormatHelp("numbers")}}$   $\sqrt{\$BR}$ 

END_TEXT
Context()->normalStrings;
```

- View
- Update
- NewVersion
- Append

Save to [TMPL]/local/ECE305_HW6_White/ECE305_HW6_P06_White.pg and View

- Open in new window
- Take Action!

This will open a new tab at the top of the browser with the rendering of the edited problem.

The screenshot shows the NC State WebWork interface. At the top, there are browser tabs for 'Course: ECE 542 (001) Sprin...' and several 'WebWork: ECE305_S17_W...' tabs. The address bar shows the URL: `https://webwork.math.ncsu.edu/webwork2/ECE305_S17_White/ECE305_HW6_White/6/?sourceFilePath=local/ECE305_HW6_White/6`. The page header includes the NC State University logo, 'NC State WebWork', and a 'Logged' status.

The main content area is titled 'ECE305 HW6 White: Problem 6'. It features navigation buttons: 'Previous', 'Problem List', and 'Next'. A status message indicates 'This set is visible to students.' and a green box shows the file path: 'Saved to file [TMPL]/local/ECE305_HW6_P06_White.pg'.

The problem text is: '(17 points) local/ECE305_HW6_White/ECE305_HW6_P06_White.pg. A single turn loop of wire is linked to a magnetic flux with a density of $0.7 \text{ Wb/m}^2 [T]$. If the flux decays linearly to zero in 0.4 ms determine the average EMF induced in the loop is V. help (numbers)'. A red box highlights the magnetic flux density value.

Below the problem text is a 'Solution:' section. There are buttons for 'Get a new version of this problem', 'Edit2 Edit3', and 'Show Past Answers'. A 'Show:' section includes checkboxes for 'CorrectAnswers', 'AnswerGroupInfo', 'Show Auxiliary Resources', 'AnswerHashInfo', and 'PGInfo', with buttons for 'Preview My Answers', 'Check Answers', and 'Submit Answers'. A message states: 'You have attempted this problem 0 times. You have 12 attempts remaining.' There is also an 'Email instructor' button.

At the bottom, another status message says 'This set is visible to students.' and a green box shows the file path: 'Saved to file [TMPL]/local/ECE305_HW6_White/ECE305_HW6_P06_White.pg'.

The left sidebar contains a 'MAIN MENU' with categories like 'Courses', 'Homework Sets', 'User Settings', 'Grades', 'Instructor Tools', 'Library Browser', 'Statistics', 'Student Progress', 'Scoring Tools', 'Email', 'File Manager', 'Course Configuration', 'Help', and 'Report bugs'. A 'Problems' section lists 'Problem 1', 'Problem 2', and 'Problem 3'.

The problem is now ready for the students. However, there is one more step that needs to be done to save to the new file to Webwork archives. Go back to the Webwork Hmwk Sets Editor page and click the “Export” tab.

Hmwk Sets Editor

Please select action to be performed.

Show/Hide Site Description

Select an action to perform:

Filter Sort Edit Publish Import **Export** Score Create Delete

Show which sets?: enter matching set IDs below

Match on what? (separate multiple IDs with commas)*:

Take Action!

Showing 46 out of 46 sets.

Set List

<input type="checkbox"/>	Edit Set Data	Edit Problems	Edit Assigned Users	Visible	Open Date	Close Date	Answer Date
<input type="checkbox"/>	Chapter 3	3	1/44	No	06/02/2014 at 01:42pm	03/02/2018 at 01:42pm	01/01/2021 at 01:42pm
<input type="checkbox"/>	Chapter 4	10	1/44	No	06/02/2014 at 01:42pm	03/02/2018 at 01:42pm	01/01/2021 at 01:42pm
<input type="checkbox"/>	Chapter 5	8	1/44	No	06/02/2014 at 01:42pm	03/02/2018 at 01:42pm	01/01/2021 at 01:42pm
<input type="checkbox"/>	Chapter 6	8	1/44	No	06/02/2014 at 01:42pm	03/02/2018 at 01:42pm	01/01/2021 at 01:42pm
<input type="checkbox"/>	Chapter 7	1	1/44	No	06/02/2014 at 01:42pm	03/02/2018 at 01:42pm	01/01/2021 at 01:42pm

Verify that Export which sets? Is set to visible sets. Than click “take action.” This will show that Webwork is setting to export visible sets – note the green line

Hmwk Sets Editor

Results of last action performed:
exporting visible sets

Show/Hide Site Description

Select an action to perform:

Save Export





Cancel Export

Export selected sets

Take Action!

Showing 46 out of 46 sets.

Set List

	Edit Set Data	Edit Problems	Edit Assigned Users
<input checked="" type="checkbox"/>	Chapter 3 	3	1/44
<input checked="" type="checkbox"/>	Chapter 4 	10	1/44
<input checked="" type="checkbox"/>	Chapter 5 	8	1/44
<input checked="" type="checkbox"/>	Chapter 6 	8	1/44

You need to click “Take Action” one more time to complete the export operation! This updates the *.def files in the Webwork archive. Do not omit this action! You may lose your edits, not for this semester but for the next semester, if you create a new archive without completing the export. This gives

Hmwk Sets Editor

Results of last action performed:
46 sets exported, 0 sets skipped. Skipped sets:
()

Show/Hide Site Description

Select an action to perform:

- Filter
- Sort
- Edit
- Publish
- Import
- Export
- Score
- Create
- Delete

Show which sets?:

Match on what? (separate multiple IDs with commas)*:

Take Action!

Showing 46 out of 46 sets.

Set List							
<input type="checkbox"/>	Edit Set Data	Edit Problems	Edit Assigned Users	Visible	Open Date	Close Date	Answer Date
<input checked="" type="checkbox"/>	Chapter 3	3	1/44	No	06/02/2014 at 01:42pm	03/02/2018 at 01:42pm	01/01/2021 at 01:42pm